

516, 285

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



Rec'd PCT/PTC

00 DEC 2004



(43) International Publication Date  
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number  
WO 03/104485 A2

(51) International Patent Classification<sup>7</sup>: C12Q 1/02

(21) International Application Number: PCT/EP03/05907

(22) International Filing Date: 5 June 2003 (05.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
02012552.2 5 June 2002 (05.06.2002) EP

(71) Applicant and

(72) Inventor: ALADAR, A., Szalay [HU/DE]; Hessenstrasse  
64, 97078 Würzburg (DE).

(74) Agent: HUBER, Bernard; Huber & Schüssler, Trud-  
eringer Str. 246, 81825 München (DE).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,

CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE,  
SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ,  
VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished  
upon receipt of that report

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*

(54) Title: LIGHT EMITTING MICROORGANISMS AND CELLS FOR DIAGNOSIS AND THERAPY OF DISEASES ASSO-  
CIATED WITH WOUNDED OR INFLAMED TISSUE

(57) **Abstract:** Described is the use of a microorganism or cell containing a DNA sequence encoding a detectable protein or a protein  
capable of inducing a detectable signal, e.g., a luminescent or fluorescent protein for the preparation of a diagnostic composition  
for diagnosis and/or visualization of wounded or inflamed tissue or a disease associated therewith. Moreover, therapeutic uses are  
described, wherein said microorganism or cell additionally contain an expressible DNA sequence encoding a protein suitable for  
therapy, e.g. an enzyme causing cell death or digestion of debris.

WO 03/104485 A2

